

UNIVERSAL HOLDING FIXTURE

ABSTRACT

Universal holding fixtures or tools for holding oddly shaped objects or workpieces. The universal holding fixtures hold an object or workpiece having any shape and allows orientation of the object or workpiece so that all sides may be easily viewed and worked on. The universal holding fixtures comprise a plurality of dual axis clamps that are interconnected by way of rods to form an articulated structure. The dual axis clamps are individually moveable along the rods, are rotatable with respect to the rods, and are lockable to the rods to which they are connected. A preferred embodiment of the universal holding fixture has a base to which a plurality of clamps are secured that are interconnected by a fixed rod. The articulated structure is rotatably coupled to the fixed rod and is articulated relative to the fixed rod and the base so that distal ends of selected rods secured by the dual axis rotatable clamps are positioned to hold and/or support the object or workpiece. Once the object or workpiece is held in a desired manner by the selected rods, the dual axis clamps may be tightened to secure the rods in a locked position.